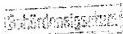


①

Int. Cl. 2:

**D 21 C 5/00**③ **BUNDESREPUBLIK DEUTSCHLAND**

C 05 F 5/00

**DEUTSCHES PATENTAMT**

DT 24 59 226 A1

①

**Offenlegungsschrift 24 59 226**

②

Aktenzeichen:

F 24 59 226.3

③

Anmeldetag:

14. 12. 74

④

Offenlegungstag:

16. 6. 76

⑤

Unionpriorität:

② ③ ④

—

⑥

Bezeichnung:

Verfahren zum wirtschaftlichen Verwerten der bei der Kultur von  
Dattelpalmen als Abfall anfallenden Reinstoffe

⑦

Anmelder:

Ernst, Sami, Dr.-Ing. 6100 Darmstadt; Kesselmeyer, Heinz, 2830 Bassum

⑧

Erfinder:

gleich Anmelder

DT 24 59 226 A1

ORIGINAL INSPECTED

© 6.76 609 825/933

5/80

DERWENT-ACC- 1976-48240X

NO:

DERWENT- 197626

WEEK:

COPYRIGHT 2008 DERWENT INFORMATION LTD

**TITLE:** Utilisation of [REDACTED] waste by cooking with ammonium polysulphide to recover cellulose, and treatment of the waste liquor for fertiliser (and fodder) mfr

---

**Basic Abstract Text - ABTX (1):**

Process for economic utilisation of raw materials, ie. palm leaves and petioles, produced as waste during cultivation of [REDACTED] (Phoenix dactylifera) comprises (i) decomposing with an NH<sub>4</sub> polysulphide to prepare cellulose (i) then (ii) separating (i) from the waste liquor and conventionally washing, grinding and drying. The waste liquor is then (a) adjusted to pH 6-7 to recover an N-lignin residue (iii) which is dried or (b) after pH adjustment inoculated with yeast, fermented, then sepd. into a yeast-contg. fraction (iii) and a residue (iii). The cellulose can be bleached to make white paper or (if made from leaves) used to make kraft and corrugated paper. (ii) is useful as a fertilizer, and (iii) is useful as cattle fodder. Delignification is rapid and the NH<sub>3</sub>-recycle system requires no extra investment.

**Title - TIX (1):**

Utilisation of [REDACTED] waste by cooking with ammonium polysulphide to recover cellulose, and treatment of the waste liquor for fertiliser (and fodder) mfr

**Standard Title Terms - TTX (1):**

UTILISE [REDACTED] WASTE COOK AMMONIUM POLYSULPHIDE RECOVER CELLULOSE TREAT LIQUOR FERTILISER FODDER MANUFACTURE